

**Friday June 16, 2017 7:30pm**  
**Our Saviors Lutheran Church**  
**1035 Carol Lane, Lafayette**  
**DX Interest Group Meeting 6pm**  
**\* License Testing 6pm \***

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**Affiliated  
Club**

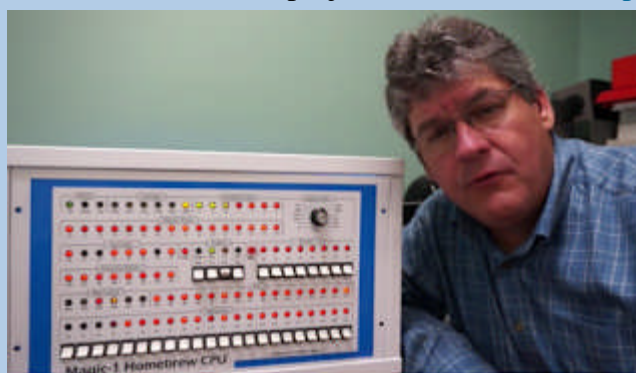
## JUNE MEETING

# Magic-1, A Completely Self-Designed and Home-Built Minicomputer !

**Presented by Bill Buzbee**

Constructed from more than 200 74-series TTL chips and roughly 4,000 individually wrapped wires, Magic-1 doesn't use a standard off-the-shelf CPU, but rather the bulk of the machine is itself a custom-designed CPU with its own unique instruction set.

The talk will include a demonstration of Magic-1, but will primarily focus on how it all came together. In particular, how Bill's oddball kitchen-table hobby project became a collaborative effort involving computer and electronic hobbyists from around the world. The machine has been connected to the internet for more than a decade offering open telnet access to thousands of curious visitors, and serving web pages at <http://www.magic-1.org>. It's been the subject of "Slash-dottings", several magazine features, "Editor's Choice" award at the Maker Faire, and multiple awards at vintage computer festivals. More information about the project can be found at <http://www.homebrewcpu.com>



*Bill Buzbee is currently a Senior Staff Software Engineer at Google in Mountain View, CA, where he works on the runtime system for Android. He previously worked at Hewlett-Packard Laboratories, the Transmeta Corporation and Hewlett-*

*Packard's compiler lab. He holds 31 patents, mostly related to dynamic translation and just-in-time compilation techniques. In a previous career, Bill was a newspaper journalist working at small daily papers in the Midwest - including a stint as the managing editor of the Parsons (KS) Sun. He lives in Half Moon Bay, CA with his wife Monica, three kids and a very energetic Australian Shepherd dog. (text courtesy Bill Buzbee)*

# WELCOME NEW CLUB MEMBERS !

Paul Amala, NK8F

Rick Hubbard, KI6VOS

Matias Santini, KM6GWK

Tom Simons, KE6DQV



**When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.**

**Go to:**  
**<https://smile.amazon.com/ch/23-7072059>**

ALL MEMBERS ARE INVITED TO JOIN THE CLUB YAHOO GROUP. DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS SHARE INFORMATION WITH THE MEMBERSHIP AT:

**<http://groups.yahoo.com/group/mdarc>**

\*\*\*\*\*

**Mount Diablo Amateur Radio Club W6CX**  
**P.O. Box 23222 Pleasant Hill, CA 94523**  
**(925) 288-1730**

*The Carrier* is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

**President** - Mike Patterson, N6JGA

**Vice President** - Larry Bradley KK6QPE

**Secretary** - Dick Fletcher, AF9RF

**Treasurer** - Cathi Walton, K2CJW

**Technical Committee Chair**

Jim Siemons, AF6PU

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Trevor Hall, WA6JAU

Terry Buxton, KK6KGX

Janice Fujii, KG6VTD

John Primus, AF6RJ

**Emergency Coordinator** - Ron Bunch, W4FEK

**PACIFICON 2017**

Chair: Misa Siemons, KJ6BUE

Registration: Tom Deeble, KA6SIP & Debbie Deeble

Treasurer: Jim Siemons, AF6PU

Secretary: (vacant)

Web Page: Mike Patterson, N6JGA

**Membership Chair** - Tom Deeble, KA6SIP  
mdarcmembership@mdarc.org

Website - David Schild, KK6CQX

Repeater Trustee - Jay Caldis, KT6Y

Education & Training Chair - John Primus, AF6RJ

License Testing - Larry Loomer, KI6LNB

Public Service - Klaus Berkner, K6KHB

Outreach Coordinator - Jim Siemons, AF6PU

Field Day Chair - Larry Loomer, KI6LNB

Refreshments: Elizabeth Styles, KG6HLV

Holiday Party - Misa Siemons, KJ6BUE

Communications Van - Lauren Styles, WA6CIE

***The Carrier*** Newsletter

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# PRESIDENT'S MESSAGE



MDARC Family,

Once again, Field Day is almost here; June 24-25. Larry Loomer's Field Day committee is working hard to make it our best ever. We'll be located in Heather Farm Park, Walnut Creek again this year. However, the City's solar panel project is still under construction at our usual location. So they gave us permission to use

the parking lot that fronts along Ygnacio Valley Road. This is a wonderful location from a public relations perspective. It gives us exposure from the street, is adjacent to a ball field and across the street from the swimming pool, a playground and tennis courts. So to get to us, after you turn onto North San Carlos Drive, turn right into the first available driveway, then come back to the parking area closest to Ygnacio Valley.

Our van and trailer will be there, with newly acquired equipment installed, possibly along with some vehicles on display from other organizations. So if you haven't seen one or both of our vehicles, Field Day is a good time to come get a tour. We'll have several stations up and running as well. So don't let the weekend pass without coming over.

Our Education and Training Committee recently finished its General Class course and subsequent testing. As a result, we have 10 new Generals in our MDARC Family. They're listed elsewhere in this Carrier, so be sure to congratulate them at your next opportunity.

We have some Auxiliary EmComm Classes coming up next. On June 15th (the night before our Club meeting), National Weather Service representative Brian Garcia, who is also the Warning Coordination Meteorologist (WCM) from Monterey, will lead a SkyWarn certification class. And on June 22, Brian Lindblom, a retired CoCo Sheriff Deputy, former San Ramon Police Chief and volunteer Martinez CERT Director, will review the Incident Command System. Good stuff, so come on down. 7:00 PM at the Salvation Army Church. See <http://www.mdarc.org/activities/education/Classes> for details.

Our Public Service committee has a somewhat lighter schedule this year. One of the reasons is that our abundance of rain this past winter washed out some open space areas and trails, causing events to be canceled. No matter; there's still plenty to do, and the schedule goes later into the year than usual. Our last event is in November. Check over the schedule at <http://www.mdarc.org/activities/public-service> and sign up for at least one event.

Our meeting this Friday the 16<sup>th</sup> promises to have a fascinating presentation. Bill Buzbee, Senior Staff Software Engineer at Google, will be showing us his Magic-1, A Completely Self-Designed and Home-Built Minicomputer. This machine doesn't have "a" CPU. The bulk of the machine is itself a custom-designed CPU with its own unique instruction set. Bill will demonstrate the computer; tell us how it came to be built and what it's doing now.

As I and others have mentioned many times before; in my Yahoo Group emails, at meetings, here in the Carrier and elsewhere; our Club cannot function without the active participation of our members.

*(continued on the following page)*

Your membership dues are welcome and needed, but we need you to help out as well. Most of us that have been leading the Club and its events have been doing it for a long time. Several of us or our families are experiencing medical issues or have other demands that now or soon will require us to step back from what we are doing. The Club needs others to be willing and able to step in.

Experience is not necessary. This is the place to get it and now is the time. A good place to start is coming to Field Day. Another is volunteering for a Pacificon committee and/or attending or coordinating a public service event. If you're not sure what you can or want to do, check over our Committees web page at <http://www.mdarc.org/about-us/committees>, or talk to us. We'll work with you to figure it out and find something that you'll enjoy. Our Club's long term survival depends on you. Thank you.

73 until next time,

Mike Patterson, N6JGA  
President



**AMATEUR RADIO**  
**FIELD DAY**  
*Public Welcome!*



# 2017 Field Day Plans

The MDARC Field Day 2017 will be held at Heather Farm Park in Walnut Creek, CA., on June 24 and 25, 2017.

Misa, KJ6BUE, has already made contact with the Parks and Recreation Department of Walnut Creek, arranging for the use of the parking lot between Ygnacio Valley Road and Ball Field 1 as our Field Day site. We will be using the toilets in the building adjacent to our Field Day site. We hope that this very visible location will give us greater contact with the public than in previous years.

On Friday morning, Misa, KJ6BUE, and Larry, KI6LNB, will meet at Heather Farm Park to put up the barriers to close off our parking lot from would-be parking persons.

The MDARC Trailer will be delivered on Friday afternoon and situated away from the trees. The beam antenna parts will be extracted from the trailer and will be assembled adjacent to the trailer. The antenna rotor will be mounted on the top of the mast that is mounted to the side of the trailer. The antenna will be placed on the top of the rotor. Ben, KI6WBH, will set up his radio station in the trailer. Later in the day, Charles, KG6PHZ, will bring his fantastic solar trailer to the site and the panel frames will be set up on the trailer.

The MDARC Van will be delivered to the site and set up as a contesting location. The van is being outfitted with radio gear as this report goes to press.

Saturday morning the installation of the panels on the solar trailer will be completed. Beve and Ruth, KE6VOO, will provide juice, coffee and pastries for the early morning workers. The solar trailer will provide power for the entire Field Day operation. A wire antenna will be installed for HF contesting.

At 1100 hours, the Field Day contacting will begin. We will be busy calling CQ on 20 meters and on 40 meters. Larry will give near hourly reports on the W6CX repeater as to where on the bands the Field Day stations will be operating. Beve and Ruth will provide a delicious feed at lunch time. License testing will be held at 1300 hours, providing testing for all three license levels.

We hope for a visit from Jim Latham, AF6AQ, our ARRL Section Manager, and from other members of our served agencies and hope to have a show-and-tell class on the parking lot area.

The U.S. Department of Veterans Affairs Communication Van from San Francisco has been invited to attend our Field Day site, and offer tours of the van.

We plan to have a BBQ dinner at the Field Day site at dinner time. It is planned to be a tri-tip dinner with all of the fixings, and will be the social highlight of the Field Day event. We plan to continue operating into the night, using power from Charles' solar trailer's batteries during the night hours.

On Sunday morning, Beve and Ruth will, again, provide juice, coffee and pastries for the early morning attendees. The station captains will continue making contacts. Hopefully, band conditions will be better than last year. We hope to be using the same logging software that Ben set up on a computer in the trailer last year.

At 1100 hours on Sunday, the Field Day contesting will be over. The beam antenna will be taken down and all of the ham equipment will be packed up, coiled up, taken apart and stored away for the MDARC Field Day, 2018. The MDARC trailer and the MDARC Van will be returned to their respective resting places. The solar trailer will be disassembled and readied for its next activity.

We hope to see all of our members and their guests at our Field Day 2017 site.

*73, Larry, KI6LNB, Field Day Chairman*

# **MDARC Board of Director Meeting Minutes**

**Date: June 5, 2017**

**Time: 1900 Hours (7:00 PM)**

Presided over by: President, Mike Patterson, N6JGA

Recorded by Richard Fletcher, AF9RF, Secretary

The meeting was held at the Black Bear Diner 700 Bancroft Rd, Walnut Creek, Ca. and was opened at 7:02 PM. There were 9 attendees.

Eric Ferguson, KA6USJ

Trevor Hall, WA6JAU

John Primus, AF6RJ

Larry Bradley, KK6QPE

Cathi Walton, K2CJW

Ron Bunch, W4FEK

Janice Fuji, KG6VTD

The minutes of the previous meeting were approved.

VP Larry announced that the general meeting programs are committed to through December except August.

Treasurer Cathi Walton, K2CJW explained the previous month's financial activities concluding with depicting the total account balance as \$111,813.42. In addition she reported receiving an Amazon "SMILE" donation of \$107.07 as well as \$14,400 reported as excess from last year's Pacificon.

Pacificon was reported as promising and rooms are still available.

The Education and Training board reported that the maximum student attendance for the General License class was set at 21 but the results proved to be 17 still attending after 5 class sessions. When the License Exams was given, 14 students attempted with 10 earning their General License. The subsequent 'Get on the Air' class was held with 4 attendees. Another Technician License class is scheduled for August 17.

MDARC and Salvation Army will be hold a class on Handy Talkie and repeater operation. It will be held at the SA building located at 3950 Clayton Road (cross street is 'WEST') on June 8th at 7:00 PM.

Another important class concerning "SKYWARN" will be held June 15th at 7:00 PM. Get your certificate.

The Field Day location for this year has been moved to the parking lot between Ygnacio Valley Road and Ball Field 1.

The club van is currently being worked on with the intent of getting it in top shape. Some tasks have been completed. Some of the necessary parts have been donated.

The 'new member' packet has yet to be completed.

Membership currently stands at approximately 340. The meeting was adjourned at 7:32 PM.

*Respectfully submitted by*

*Richard Fletcher, AF9RF, Secretary*



Livermore Amateur Radio Klub

## **Free Technician Amateur Radio License Class.**

**A one-day class will be held on the USS Hornet Museum in Alameda July 15 at 8:30 AM to about 4:00 PM. Test given after the class.**

**The Hornet Amateur Radio Club and the Livermore Amateur Radio Klub are providing the class for free.**

**The Class will teach you what you need to know to get your Technician Amateur license. Morse Code is no longer required to get a Ham license.**

**There is a \$15.00 charge to take the test. Bring cash.**

**You will need a government issued photo ID, and will need to put your FCC Registration Number (FRN) or your Social Security number on the application (this applies to everyone, including minors). If you prefer to not use your Social Security Number, you should obtain an FRN from the FCC ([www.fcc.gov](http://www.fcc.gov)).**

The notes for the class are available at [www.rdf-sf.org](http://www.rdf-sf.org) at Library-KN6FW-Tech Class. Please download all 4 files. PRINT them, and bring them to class. Reading through them before class would be good.

Rich (KN6FW) will teach the class and recommends Gordon West's *Technician Class Manual* as a reference.

You will need to sign up in advance for the class. Please arrive about 8:00 AM to allow time to sign on to the Hornet and get to the class room.

Class is limited to 30 students so sign-up early.

Contact Roger (KJ6WSO) to sign-up for the class.

[rogerdeming@yahoo.com](mailto:rogerdeming@yahoo.com)

Please include your name, phone number, and email.

# Ham Radio Licensing Course Now Forming!

**Mt. Diablo Amateur Radio Club and SATERN**  
will be holding a **7 week** course where you can learn everything  
you need to earn your **Technician Class**  
(entry level) **FCC Amateur Radio License.**  
**Getting On The Air 2 week** course follows

**The Technician Class license is your entry to the world-  
wide excitement of Amateur Radio and Emergency  
Communications... and now  
you do NOT need to learn Morse code!**



**Course begins on...**  
**Thursday August 17th, 2017**  
**at 7-9 pm**

**First Class starts at 6:30**

**The Salvation Army**  
**3950 Clayton Road, (Cross is West St.)**  
**Concord 94521**



***Online Registration is required.*** We use the ARRL Textbook  
and if you don't have a book you can order your book in the  
**online registration process.** *Each student must have full access to a  
copy of the text. There is a 6.00 admin fee.*

**Follow up training and License testing will also be available.**

**For Information & Registration**

**email: [HamRadioClass@gmail.com](mailto:HamRadioClass@gmail.com)**

**ARRL** The national association for  
AMATEUR RADIO

**Complete class calendar at**

**<http://www.mdarc.org/activities/education/Classes>**



# **N7RCA**



***Northern Nevada Annual Radio Swap Minden, Nevada  
June 17, 2017 7:30am until...?***

***Collins radios and parts  
LOTS OF HEAVY METAL EQUIPMENT,  
VINTAGE EQUIPMENT Drake, Collins, Viking and so on***

***What to Bring: Wife, friends, drinks, food, chairs and a table for swap.***

***AGENDA: Swap - Buy - Sell - Trade- Have fun***

***Spaces are FREE.***

***Please pass this along to other groups and operators***

***MINDEN, NEVADA. (20 miles from S. Lake Tahoe)***

***AM, SSB, COLLECTORS, BROADCASTERS, and their FAMILYS***

***RV's welcome on the ranch, lots of room.***

***Swap meet is on a 6 acre ranch parking and RV's are not a problem.***

***All persons are invited who are interested in radio.***

***Additional Information at:***

***<http://www.n7rca.info/>***

# HAM RADIO OUTLET

14 STORE BUYING POWER!

**ICOM**



## IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



## IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



## IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



## ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

## ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz\*\* • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



**KENWOOD**



## TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



## TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



## TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



## TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

## TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



**YAESU**  
The radio



## FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



## FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



## FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



## FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

## FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

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(800) 854-6046

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(877) 892-1748

SAN DIEGO, CA  
(877) 520-9623

NEW CASTLE, DE  
(800) 644-4476

PORTLAND, OR  
(800) 765-4267

DENVER, CO  
(800) 444-9476

PHOENIX, AZ  
(800) 559-7388

ATLANTA, GA  
(800) 444-7927

WOODBIDGE, VA  
(800) 444-4799

SALEM, NH  
(800) 444-0047

PLANO, TX  
(877) 455-8750

ONLINE STORE  
WWW.HAMRADIO.COM

New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



## The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

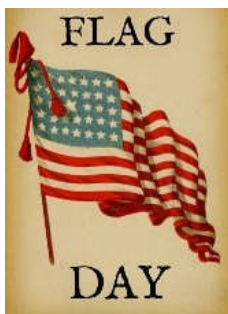
P.O. Box 23222

Pleasant Hill, CA 94523

[www.mdarc.org](http://www.mdarc.org)



## FIRST CLASS



## PACIFICON 2017

ARRL Pacific Division Ham Radio Convention  
Produced by the Mount Diablo Amateur Radio Club



<https://www.facebook.com/mdarc.org>

### W6CX Nets

Monday 7:00 pm Washington High School Net 147.060+

Monday 8:00 pm SATERN Net 147.060+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

FM 147.060 MHz + / PL 100Hz - EchoLink: W6CX-R/133896, IRLP: 3057  
224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

**D-STAR** 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/> Digital ATV Output 1244.500

Digital ATV Input 1292.500

ATV Inputs: 1289.25 MHz AM; 1270.000 FM pl 192.8 915.0 AM 427.0 AM

**ATV Internet Stream:** <http://www.w6cxatv.net/live>

### Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 146.355+ (77.0 PL)

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

### Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

## June and July 2017 Club Calendar

Friday June 16, 2017

7:30pm General Meeting - Our Saviors Lutheran Church  
1035 Carol Lane, Lafayette

June 24-25, 2017

**ARRL FIELD DAY WEEKEND Heather Farm Park, Walnut Creek**

Saturday July 1, 2017

8:00am MDARC Technical Committee  
Environmental Center, 2581 Harbor Street, Pittsburg

Monday July 10, 2017

6:30pm MDARC Board Meeting  
Black Bear Restaurant, 700 Bancroft Avenue, Walnut Creek

July 21, 2017

7:30pm MDARC General Meeting - Our Saviors Lutheran Church  
1035 Carol Lane, Lafayette